

Village of Sauk City

Office of the Village Administrator

2001 JAN 23 P 3: 17

January 18, 2001

RECEIVED

Jim Loock, Chief Electric Engineer **Public Service Commission** 610 N. Whitney Way P.O. Box 7854 Madison, WI 53707-7854

JAN E. Zuw Electric Division

In the Matter of Filing Plans for Appropriate Inspection and

Maintenance, PSC Rule 113.0607.

Dear Mr. Loock:

Enclosed for filing are 3 copies of Sauk City Utilities Preventative Maintenance Plan detailing inspection maintenance schedules, condition rating criteria, corrective action schedules, record keeping procedures and report filing schedules as documented in this rule.

Herman Mick

Very truly yours,

Herman Mack,

Utility & Public Works Director

**Enclosures** 

# PREVENTATIVE MAINTENANCE PLAN

2001 JAN 23 P 3: 17

Sauk City Utilities

**FILING DEADLINE** 

**FEBRUARY 1, 2001** 

RECEIVED

JAN 2 3 2001

December 19, 2000

**Electric Division** 

Herman Mack 726 Water Street Sauk City, WI 53583 608-643-3932

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This plan was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

2091 JAN 23 P 3: 17

# TABLE OF CONTENTS

			Page
I.	Preventative Maintenance Plan		2
II.	Inspection Schedule and Methods		2
III.	Condition Rating Criteria		3
IV.	Corrective Action Schedule	RECEIVED	4
V.	Record Keeping	JAN 2 3 2001	4
VI.	Reporting Requirements	Electric Division	4
VII.	Distribution – overhead inspection g	uide	5
VIII.	Distribution – underground inspection	n guide	8
IX.	Substation - Monthly inspection guid	le	10
X.	Substation - Annual Inspection Guid	e	18
XI.	Transmission – Annual Inspection G	uide	20
XII.	Transmission – 5 Year Inspection Gu	ide	21
	FORMS		
OVEF	HEAD DISTRIBUTION INSPECTION	ON FORM	7
UNDE	ERGROUND DISTRIBUTION INSPI	ECTION FORM	9
MON	THLY SUBSTATION INSPECTION	FORM	13 – 17
ANNU	JAL SUBSTATION INSPECTION F	ORM	19
ANNU	AL TRANSMISSION INSPECTION	FORM	22

### I. Preventative Maintenance Plan

The PSC 113.0607 rule reads;

Appropriate inspection and maintenance: system reliability.

- (1) PREVENTATIVE MAINTENANCE PLAN. Each utility or other person subject to this chapter, including persons who own electric generating facilities in this state who provide service to utilities with contracts of five years or more, shall develop and have in place its own preventative maintenance plan. This section is applicable to electric generating facilities as set forth at s. 194.491(5)(a)(1), Stats. Each plan shall include, among other things, appropriate inspection, maintenance and replacement cycles where applicable for overhead and underground distribution plant, transmission, generation<sup>1</sup>, and substation facilities.
- (2) CONTENTS OF THE PLAN. (a) *Performance standard*. The Preventative Maintenance Plan shall be designed to ensure high quality, safe, and reliable service, considering: cost, geography, weather, applicable codes, national electric industry practices, sound engineering judgment and experience.
- 1 PSC staff interpretation is that generation applies to individual generators equal to or greater than 50 MW.

# II. Inspection Schedule and Methods:

The purpose of this plan is to maintain or improve the electrical system reliability with the objective of increased municipal loyalty and satisfaction from our constituents. The goals are to meet and exceed the schedules established in this plan.

Exception reporting (inspected equipment not in good condition) will be the method of documentation on all inspection forms.

The scope of this plan is traditional and uses proven maintenance techniques. Unique operating and maintenance philosophies have not been considered. Also, manufacturer defects will be dealt with as they are communicated to this utility.

**EVERY** 

SCHEDULE:	MONTHLY	ANNUAL	5 VE + DG
Transmission (≥69Kv and above)	T	X	5 YEARS  X
Substations	X	X	
Distribution (OH & UG)			X

The inspection of Distribution facilities will be by individual substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included with the plan.

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

- 1. <u>IR</u> infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
- 2. <u>RFI</u> Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
- 3. <u>SI</u> structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
- 4. <u>Clearance</u> refers to proper spacing of conductors from objects, trees and other utility cables.
- 5. <u>EC</u> equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

# III. Condition Rating Criteria:

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

- 0) Good condition
- 1) Good condition but aging
- 2) Non-critical maintenance required normally repair within 12 months
- 3) Priority maintenance required normally repair within 90 days
- 4) Urgent maintenance required report immediately to the utility and repair normally within 1 week

### IV. Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

# V. Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

# VI. Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a letter documenting the percent of inspections achieved compared to the schedule and a description of maintenance achieved within the scheduled time allowance.

# VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE

### **STRUCTURE**

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires
- U Guard/Conduit Condition

### **EQUIPMENT**

- Transformers
  - ✓ Oil Leaks
  - ✓ Bushing Condition
  - ✓ Grounding/Bonding
- Capacitors
  - ✓ Fuses Blown
  - ✓ Bushing Condition
  - ✓ Oil Leaks
  - ✓ Tank Bulged
  - ✓ Switches, Oil, Vacuum
  - ✓ Control Conduit/Wiring
  - ✓ Grounding/Bonding
- Switches GOAB, Inline, Disconnect
  - ✓ Insulator Condition
  - ✓ Operating Handle/Locks
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number
- Cutouts
  - ✓ Insulator Condition
  - ✓ Fuse Size Tag

# VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE (con't)

### EQUIPMENT (CON'T)

- Arrestor
  - ✓ Insulator Condition
  - ✓ Connections
  - ✓ Ground Lead Disconnection
- Cable Terminators
  - ✓ Insulator Condition
  - ✓ Grounding/Bonding

### **CLEARANCES**

- Ground Line
- Buildings, Bridges, Swimming Pool, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Transmission Lines
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
  - ✓ Clearance From Line
  - ✓ Vines on Poles
  - ✓ Danger Trees

### **INFRARED SCAN**

- Main Three-Phase Feeders
- Priority Overhead Transformer Banks
  - ✓ Bushing Connectors Primary
  - ✓ Bushing Connectors Secondary
  - ✓ General Tank Heating
- Current & Voltage Transformers if Applicable

### RFI CHECK

OH system with AM radio as each circuit is inspected

·			
		Corrected By	
<u>;</u>		Date Item Corrected	
	COMMENTS	Rating Criteria  (a) Good Condition (b) Good Condition but aging (c) Non-critical Maintenance Required (d) Priority Maintenance Required (e) Urgent Maintenance Required (f) Urgent Maintenanc	
1		Communication Clearance	
	NS S	Streets, Roads, Alleys	
OVERHEAD DISTRIBUTION INSPECTION FORM  Date Inspected by Sub Ckt	AR/	Building Clearances	
	CLEARANCE	Ground Line Clearances	
		Brimmin 9917	
		Street Light	
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	EQUIPMENT	Cutouts	
∑	🖺	Switches	
C.		Transformer	_
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Z		U'Guard/Conduit Cond	
FORM Date Inspected bySub_		Conductor and Ties	-
ပ		Customer Equipment	-
Я	A H	Signs, Loc#, Warning	┥
S	1 2	Guy Bond, Insulator	$\dashv$
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Ĕ	"	Pole Steps	┥
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3		Insulators, DE, Pin	$\dashv$
T		Crossarm Condition	$\dashv$
313		Pole Condition/Leaning	$\dashv$
OVERHEAD [	MAP AREA	LOCATION	
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# VIII DISTRIBUTION - UNDERGROUND INSPECTION GUIDE

# STRUCTURAL (Exterior & Interior) Transformer, Primary Pedestal, Secondary Pedestal, Switchgear.

- Enclosure Condition
- Level/Leaning
- Security
- Grade/Accessibility (Shrubs, Customer Facilities, Fill/Excavation)
- Numbering
- Voids/Gaps
- Signage Location Number, Warning Sign
- Pad/Vault Condition

### **EOUIPMENT**

- Transformers
  - ✓ Oil Leaks
  - ✓ Bushing Condition
  - ✓ Grounding/Bonding
  - ✓ Elbows
  - ✓ Arrestors
  - ✓ Feed-Through
  - ✓ Cable Condition
  - ✓ Secondary Connections
- Primary Pedestals
  - ✓ Elbows
  - ✓ Junction Condition
  - ✓ Grounding/Bonding
- Secondary Pedestals
  - ✓ Secondary Connections
- Switches URD Switchgear
  - ✓ Insulator Condition
  - ✓ Operating Handle Security
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number/Fuse Size & Number

### INFRARED SCAN and RFI CHECK

- Main Three-Phase Feeders (Risers & Switchgear)
- Priority URD Transformer Banks
  - ✓ Bushing Connectors Primary
  - ✓ Bushing Connectors Secondary
  - ✓ General Tank Heating

UNDERGROUND DISTRIBUTION INSPECTION FORM Date\_\_\_\_\_

Sub

\_inspected by\_

		Sorrected By	)																Ī
		Sate Item Corrected																	
	COMMENTS	Rating Criteria  0) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required																	
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1	IR/RFI	Asin Three Phase Feeders, Risers & Switchgesr						T								1	1	1	_
		Switches, Signage, Insulators, Security, Linkage, Ground, Bonds													1		1	+	-
1		Secondary Pedestals. Connections								$\dagger$	7		-	$\top$		$\dagger$	+	+	_
		Primary Pedestals, Elbows, Grounding, Bonds.Junction cond.											Ť			+	$\dagger$		-
		Transformers, Leaks, Bushings, Grounding, Bonds, Elbows, Arrestors, Cable cond, Connections					į							-					
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MAP AREA	<u> </u>	EQUIPMENT																	

## IX SUBSTATION - MONTHLY INSPECTION GUIDE

### TRANSFORMER MAIN TANK:

- Oil in bushings
- Bushing and arrestor porcelain
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Oil leaks
  - ✓ Main tank
  - ✓ Sample valves
  - ✓ Radiators
- Radiator bank
  - √ warm on top, cool at bottom
- Tank pressure
- Tank oil level
- Temperature gauge
- Cooling fans

# TRANSFORMER LTC or VOLTAGE REGULATORS:

- Tank oil level
- Drag hand positions
- Cabinet light
- Operation count
- Tank pressure
- Cabinet heater
- Cabinet contamination

# TRANSMISSION CIRCUIT BREAKERS:

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Line and load side disconnect switches
  - ✓ Properly labeled
  - ✓ Aligned properly
- Handles grounded
- Emergency trip button
- Air / Oil compressors
- Air / Oil pressure gauge
- Spring operated mechanism
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

# IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

# FEEDER CIRCUIT BREAKERS / RECLOSERS

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Line and load side disconnect switches
  - ✓ Labeled properly
  - ✓ Aligned properly
  - ✓ Handles grounded
- Emergency trip button
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

# HIGH AND LOW VOLTAGE BUSS WORK:

- Bushing, insulator, arrestor, and support insulators
  - ✓ Chips or cracks
  - ✓ Rust or dirt
- Bird nests
- Potential transformers bushings
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Cable terminators
  - ✓ Leaking fluid
  - ✓ Cracks or chips

### **MANUAL SWITCHES:**

- Properly labeled
- Ground connections
- Positioning and alignment
- Bushing and support insulators
  - ✓ Cracks or chips
  - ✓ Rust or dirt

# **MOTOR OPERATED SWITCHES:**

- OPEN/CLOSED indicator
- Properly labeled
- Cabinet heater
- Operations counter

# IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

# CONTROL HOUSE/MISCELLANEOUS:

- Clock displays proper time
- AC/DC load center breakers
- Room temperature
- Rodents
- Panels labeled properly
- Panel lights
- Annunciator panel
- Panel meters
- SCADA system RTU
- SCADA alarms
- Position indicators agree
- Relay target information
- Emergency contact directory & dial tone for phone
- Safety Equipment

### BATTERY:

- Liquid levels
- Proper float voltage on charger and battery
- Specific gravity in pilot cell
- Personal Protective Equipment
- Connection corrosion
- Leaking cells
- Dated solution in eyewash station

### YARD AND FENCE:

- Fire extinguisher charged
- Fence ground connections
- Fence secured
- Security and emergency lights
- Site base and grade
- Standing water
- Warning signs

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TRANSFORMER MAIN TANK		RATING: 0 1 2 3 4	(Cirolo One)							
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Oil in Bushings			CORRECTED BY							
Bushing and Arrestor										
Oil Leaks										
Main Tank										
Sample Valves										
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Tank Pressure										
Tank Oil Level										
Temperature Gauge										
Cooling Fans										
TRANSFORMER LTC or VOLTAGE REGULATORS	- · · · · · · · · · · · · · · · · · · ·	RATING: 0 1 2 3 4	(Circle One)							
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CHARGED/DISCHARGED Indicator								
Cabinet Light								
Cabinet Heater	$\perp$					<del></del>		
Operations Counter	_							
Bushings and Supports	$\perp$							
Line and Load Side Disconnect Switches								
Handles Grounded	_					<del></del>		
Emergency Trip Button	_							
Air Compressors - Air / Oil								
Air Pressure Gauge - Air / Oil	_							
Spring Operated Mechanism	_							
Oil Level Gauge	-+							
Tank Oil Leaks	_							
Reset Switch								
Cabinet Contamination								
Vents Clean								
Gas Pressures for GCBs	$\dashv$							
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SUBSTATION:				
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OPEN/CLOSED Indicator			CORRECTED	BY
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MONTHLY SU	IBS	STATION INSPECTION	FURIVI
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SUBSTATION:			
HIGH & LOW VOLTAGE BUSS WORK		RATING: 0 1 2 3 4	(Circle One)
		COMMENTS	DATE CORRECTED
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Bushing, Insulator, Arrestor, and Supports			
Bird Nests			
Fransformer Bushings	_		
Cable Terminators			
MANUAL SWITCHES		RATING: 0 1 2 3 4	(Circle One)
Properly Labeled			
Ground Connections			
Positioning and Alignment	$\dashv$		
Bushings and Supports			
MOTOR OPERATED SWITCHES	1	RATING: 0 1 2 3 4	(Circle One)
OPEN/CLOSED Indicator			
Proper Labeling			
Cabinet Heater			
Operations Counter			
locking criteria			

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SUBSTATION:						<del></del> -			
CONTROL HOUSE/MISCELLANEOU	JS	RATING:	0	1	2	3	4	(Circle One)	
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Clock Displays Proper Time			···	<del></del>			<del></del>	CORRECTED	BY
AC/DC Load Center Breakers							·		
Room Temperature					<del></del>				
Rodents									
Panels Labeled Properly									
Panel Lights							<del></del>		
Annunciator Panel									
Panel Meters									
SCADA System RTU									
SCADA Alarms									
Position Indicators Agree									
Relay Target Information									
Emergency Contact Directory & Dialtone for Phone									
Safety Equipment	+			<del></del>					
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BATTERY		RATING:	0	1	2	3	4	(Circle One)	
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onnection Corrosion					<del></del>			+	
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YARD & FENCE		RATING:	0 1	1 2		3 4	4	(6)	
e Extinguisher Charged	—						<del>+</del>	(Circle One)	
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curity and Emergency Lights									
curity and Emergency Lights e Base and Grade									
curity and Emergency Lights e Base and Grade anding Water									

# X Substation - Annual Inspection Guide

- Check equipment for level
- Check condition of concrete pads
- Perform oil and DGA analysis
- Battery
  - ✓ Intercell strap resistance
  - ✓ Individual cell voltages
  - ✓ Cell specific gravity
- Nameplate legible
- Equipment paint condition
- Proper equipment ID labels
- IR / RFI scans and checks

### a

# ANNUAL SUBSTATION INSPECTION FORM

		COMPLETED	ected By	เวอ															
		COM	e ltem Corrected	tsC															
Substation	COMMENTS		Rating Criteria  1) Good Condition 1) Good Condition 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required																
		-	/ RFI scans and checks	-					1				+	1	1		1		
	TERIA	-	oper identification labels	-	+	1	+	$\downarrow$	_	$\downarrow$	-	_	-	_		_			
	ON CRI	-	ameplate legible paint condition	-+-	-	-	+	+	$\downarrow$	+	+	+	+	4	-	-	-		
spected by	SUBSTATION INSPECTION CRITERIA		attery checks - Intercell strap sistance, Individual cell voltages ell specific gravity	<b>O</b>		**						Share and the state of the stat		Section of the sectio				A Wilder Black or a con-	
spec	UBSTA		eiform ASQ bns lio mohe	d	en en					24 6 75			3						
٦	S		heck condition of concrete pads			-		T	-		+								
		_	heck equipment for level									1			_				
Date			EQUIPMENT LISTING	ransformer	TC or regulators	High Voltage Breaker		Feeder CBs / Reclosers					Switches					Control house battery	ı
L						Í		<u>a </u>				l	Š				d	<u>S</u>   E	

# XI TRANSMISSION – ANNUAL INSPECTION GUIDE

### **STRUCTURE**

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires

### **EQUIPMENT**

- Switches GOAB, Disconnect
  - ✓ Insulator Condition
  - ✓ Operating Handle/Locks
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number
- Arrestor
  - ✓ Insulator Condition
  - ✓ Connections

### **CLEARANCES**

- Ground Line
- Buildings, Bridges, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
  - ✓ Clearance From Line
  - ✓ Vines on Poles
  - ✓ Danger Trees

## XI TRANSMISSION - ANNUAL INSPECTION GUIDE (con't)

### **RFI CHECK**

- Splices
- Connectors
- Dead Ends
- Switches
- Structures

### XII TRANSMISSION - 5 YEAR INSPECTION GUIDE

### IR SCAN

- Splices
- Connectors
- Dead Ends
- Switches

# ANNUAL TRANSMISSION INSPECTION FORM

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Inspected by\_

Date

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	Corrected														
	Date Item Corrected														
COMMENTS	Rating Criteria  0) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace														
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CLEARANCE	Streets, Roads, Alleys				_	_	_							 	
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2	Ground Line Clearances			ļ		ļ	 _	 _		_			 		
	Tree Trimming		 	į		ļ						<u> </u>		 	
EQUIPMENT	S19\$2911A														
l a	Switches														
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	Conductor and Ties														
	Customer Equipment														
	Signs, Loc#, Warning														
R R	Guy Bond, Insulator														
STRUCTURE	Down Guys and Markers														
S	Grounds Intact, Molding													<u> </u>	
STF	Pole Steps											L			
	Soil Conditions														
	Insulators, DE, Pin														
	Crossarm Condition														
	Pole Condition/Leaning														
MAP AREA	LOCATION														